REMARKS

The Office Action mailed December 23, 2002 has been reviewed and carefully considered. Claims 1-12 are pending in this application, with claims 1 and 8 being the only independent claims. Reconsideration of the above-identified application, as herein amended and in view of the following remarks, is respectfully requested.

In the Office Action mailed December 23, 2002, the Examiner notes the document by Jens Michael submitted with the information disclosure statement which was filed on October 10, 2002 has not been considered because it is a German language document and a concise explanation of the relevance was not included. Enclosed please find a International Preliminary Examination Report from a PCT application corresponding to the present application. The International Preliminary Examination Report includes a description in English of the Jens Michael reference (see sheet 4 of the separate sheets of the International Examination Report). In view of the description provided, the submission of the Jens Michael reference now complies with 37 CFR 1.98. It is respectfully submitted that this reference now be considered and an appropriate acknowledgement be issued.

Claims 1, 2, 5, 6, 8, and 12 stand rejected under 35 U.S.C. §102 as anticipated by U.S. Patent No. 5,974,447 (Cannon). Claims 1-3, 5, 6, 8, 11, and 12 stand rejected under 35 U.S.C. §103 as unpatentable over Cannon in view of U.S. Patent No. 6,393,014 (Daly). Claims 1, 4, and 10 stand rejected under 35 U.S.C. §103 as unpatentable over Cannon in view of U.S. Patent No. 6,363,419 (Martin). Claims 1, 7, and 9 stand rejected under 35 U.S.C. §103 as unpatentable over Cannon in view of U.S. Patent No. 6,466,783 (Dahm).

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Claims 1-12 also stand rejected under 35 U.S.C. §103 as unpatentable over WAP architecture specification in view of U.S. Patent No. 4,480,853 (Jain) and U.S. Patent No. 6,292,833 (Liao).

The present invention is directed to a system and method for effective use of an air link between mobile stations and gateway servers. More specifically, the present invention relates to a system and method for minimizing usage of radio resources while a mobile station is communicating with a web server and the content or resource specified by the user has been moved to a different location. When this situation arises, a redirection message is generated at the web server and sent to the mobile station which includes the new location of the content and/or resource. In the present application, the necessary tasks associated with redirection messages are handled by a gateway server (page 5, lines 5-21 of the present application). According to the present invention, a mobile station transmits a request for content and/or resource to a gateway server. The gateway server then transmits the request to the web server. If the requested content and/or resource has moved to a new location, the web server returns a redirection message to the gateway server. The gateway server transmits another request for the content and/or resource to the new location. After receiving the requested content and/or resource, the gateway server transmits the requested content and/or resource to the mobile station. The processing of the redirection messages by the gateway server is transparent to the mobile station so that the mobile station receives the requested content and/or resource without sending another request to a webserver. The present invention minimizes the communications over the air between the requesting mobile client and the gateway server.

Each of the independent claims 1 and 8 recite (1) receiving a redirection message by the gateway server from the web server, the redirection message indicating a new location of the at least one of content and resource, and (2) creating and transmitting by the gateway server to one of the web server and another web server another request for the at least one of content and resource at the new location. Accordingly, the gateway server according to the present invention does not send the redirection message back to the mobile client over the air link.

Cannon discloses a method and system for coupling a selective call receiver to widely distributed information sources. According to Cannon, a communication system 10 includes a server 22 connected to a widely distributed information source 24 (Fig. 1; col. 2, lines 21-24). A selective call transceiver 18, i.e., a pager, is coupled to the widely distributed information source 24 through a paging terminal 20 (col. 2, lines 26-29). The terminal 20 allows the call transceiver to request information from the server 22 (col. 2, lines 29-31). The server 22 includes software which is informed of the capabilities of the call transceiver 18 so that information is sent to the user based on these capabilities (col. 2, lines 60-67). Much of the information available on the internet is redundant and the web server 22 of Cannon is able to map the sources. If the agent, i.e., server 22, has a problem with one repository of the information, the agent can try others in a user configurable preference order (col. 3, lines 7-12).

Even if the server 22 of Cannon is considered to be the claimed gateway server and the widely distributed information source 24 of Cannon is considered to be the claimed web server, Cannon fails to disclose, teach or suggest (1) receiving a redirection message by the gateway server from the web server, the redirection message indicating a new location of the at least one of content and resource, or (2) creating and transmitting by the gateway server to one of

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the web server and another web server another request for the at least one of content and resource at the new location, as recited in independent claims 1 and 8. As stated above, Cannon discloses a system for providing web services to a low-cost pager-like device (see Abstract). The web services are provided by the webserver 22 by dispatching an agent to obtain the requested information for the pager-like device and return information in store-and-forward system that takes advantage of low-cost non-real time transmission (col. 1, lines 27-31).

Furthermore, Cannon fails to teach the generation of a redirection message. Instead, Cannon discloses that when a source of information is unavailable a redundant source of the information is contacted. Cannon discloses that the server itself maps these redundant resources (col. 3, line 9). Therefore, the location of the redundant information is not received from the information source in a redirection message, as recited in independent claims 1 and 8. Rather, Cannon teaches that the webserver 22 includes a user configurable preference order which dictates the order in which to contact the list of redundant sources.

Since Cannon fails to teach or suggest that a gateway server receives a redirection message from a web server to indicate a new location of the information, and since Cannon fails to teach or suggest that the gateway server transmits and requests a request for content and/or resource to the new location in response to the redirection message, it is respectfully submitted that independent claims 1 and 8 are not anticipated by Cannon under 35 U.S.C. §102.

Furthermore, since Cannon discloses that a server maps redundant information, Cannon fails to teach or suggest the claimed steps of receiving a redirection message including a new location of the information. The server of Cannon already knows where the information is

because it has mapped the redundant information. Accordingly, it is respectfully submitted that independent claims 1 and 8 are allowable over Cannon under 35 U.S.C. §103.

Regarding the rejections of independent claims 1 and 8 as unpatentable over Cannon in view of Daly and the rejections of independent claim 1 as unpatentable over Cannon in view of Martin or Dahm, it is respectfully submitted that neither Daly, Martin nor Dahm disclose what Cannon lacks. Regarding Daly, the Examiner states that Daly discloses at col. 7, lines 20-40 a message with a header which includes a location and that the message includes one of content a resource. However, the message disclosed in Daly is a mobile-terminated message used for delivery of a User Datagram Protocol (UDP) datagram to a mobile station (see col. 7, lines 10-15). This message teaches nothing about a redirection message as recited in independent claims 1 and 8. Accordingly, since neither Cannon nor Daly disclose, teach or suggest the claimed redirection message, it is respectfully submitted that the combination of Cannon and Daly fails to teach or suggest (1) receiving a redirection message by the gateway server from the web server, the redirection message indicating a new location of the at least one of content and resource, or (2) creating and transmitting by the gateway server to one of the web server and another web server another request for the at least one of content and resource at the new location, as recited in independent claims 1 and 8.

Martin discloses a method and apparatus for generating idle loop screen displays on mobile wireless computing devices. Martin discloses that information is encoded in WAP in the mobile device memory. However there is no teaching or suggestion of redirection messages as recited in independent claim 1. Accordingly, since neither Cannon nor Martin disclose, teach or suggest the claimed redirection message, it is respectfully submitted that the combination of

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Cannon and Martin fails to teach or suggest "receiving a redirection message by the gateway server from the web server, the redirection message indicating a new location of the at least one of content and resource" or "creating and transmitting by the gateway server to one of the web server and another web server another request for the at least one of content and resource at the new location in response to the redirection message", as recited in independent claim 1.

Dahm discloses a visual interface to mobile subscriber account services. Dahm discloses that the user accesses mobile subscriber account services by a link which may be a URL address (col. 10, lines 22-26). However, there is no teaching or suggestion of redirection messages as recited in independent claim 1. Accordingly, since neither Cannon nor Dahm disclose, teach or suggest the claimed redirection message, it is respectfully submitted that the combination of Cannon and Dahm fails to teach or suggest "receiving a redirection message by the gateway server from the web server, the redirection message indicating a new location of the at least one of content and resource" or "creating and transmitting by the gateway server to one of the web server and another web server another request for the at least one of content and resource at the new location in response to the redirection message", as recited in independent claim 1.

Regarding the rejection of claims 1-12 as unpatentable over the WAP architecture specification in view of Jain and Liao, the Examiner states that the WAP architecture specification does not disclose multiple servers. Accordingly, the WAP architecture specification fails to teach or suggest the generation of redirection messages. The Examiner further states that Jain discloses searching multiple websites until the requested information is found. However, the searching method disclosed by Jain does not teach or suggest (1) receiving a redirection message by the gateway server from the web server, the redirection message indicating a new location of the at

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least one of content and resource, or (2) creating and transmitting by the gateway server to one of the web server and another web server another request for the at least one of content and resource at the new location in response to the redirection message, as recited in independent claims 1 and 8. Instead of a redirection message, Jain teaches that a list of bookmarks to be searched is stored within a user device 24 (col. 4, lines 30-32 and col. 5, lines 58-64). Accordingly, Jain successively searches the bookmarks listed in the list of bookmarks in the user device. Since neither Cannon nor Jain disclose, teach or suggest the claimed redirection message, it is respectfully submitted that the combination of Cannon and Jain fail to teach or suggest (1) receiving a redirection message by the gateway server from the web server, the redirection message indicating a new location of the at least one of content and resource, or (2) creating and transmitting by the gateway server to one of the web server and another web server another request for the at least one of content and resource at the new location, as recited in independent claims 1 and 8. Accordingly, it is respectfully submitted that independent claim 1 is allowable over the WAP architecture specification in view of Jain.

Liao fails to disclose the limitations of claims 1 and 8 that are missing from the WAP architecture specification and Jain. Liao discloses a method and apparatus for providing access control to local services of mobile devices. As stated in the abstract, the access control disclosed by Liao involves checking the authorization of a site. Liao discloses at col. 9, lines 1-3, that the service identity of the site requesting access to the local services of the mobile device is in the header portion of the message from the site requesting access. However, this message is not a redirection message. In contrast, this message is a request for access initiated by the site. Accordingly, Liao also fails to disclose, teach or suggest the generation of a redirection message

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as recited in independent claims 1 and 8. Accordingly, it is respectfully submitted that independent claims 1 and 8 are allowable over the WAP architecture specification in view of Jain and Liao.
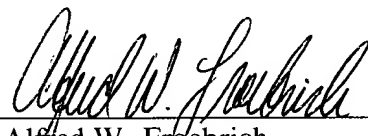
Dependent claims 2-7 and 9-12, each being dependent on one of independent claims 1 and 8, are allowable for at least the same reasons as independent claims 1 and 8.

In view of the above remarks, the application is deemed to be in condition for allowance and notice to that effect is requested.

It is believed that no fees or charges are required at this time in connection with the present application; however, if any fees or charges are required at this time, they may be charged to our Patent and Trademark Office Deposit Account No. 03-2412.

Respectfully submitted,

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